



10/047,422

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MICHAEL ET AL. Examiner: W. NEUDER  
Serial No.: 10/047,422 Group Art Unit: 3672  
Filed: JANUARY 14, 2002 Docket No.: 10646.345US01  
Title: SONDE HOUSING AND METHOD OF MANUFACTURE

CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, Mail Stop Issue Fee, P.O. Box 1450, Alexandria, VA 22313-1450 on September 4, 2003.

By: 

Name: Patricia Cygan

*Handwritten:*  
H9 dds  
(Supple)  
E. Thompson  
11/25/03

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(d))

Mail Stop Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RECEIVED**

SEP 12 2003

**GROUP 3600**

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner. At least some of the references were recently cited in an International Search Report mailed August 6, 2003.

This statement should be considered because it is submitted after the mailing date of a final action under 37 C.F.R. § 1.113 or after the mailing date of the Notice of Allowance under 37 C.F.R. § 1.311 or after any other action that closes prosecution on the application, but before the payment of the issue fee. Please charge the fee set forth in 37 C.F.R. § 1.17(p) (\$180.00) to Deposit Account No. 13-2725. This statement is submitted as certified below under 37 C.F.R. §1.97(e)(1) or (2) by the undersigned.

Certification Under 37 C.F.R. §1.97(e)(1)

In accordance with 37 C.F.R. §1.97(c) or §1.97(d), the undersigned hereby certifies that each item of information listed on the enclosed Form 1449 was first cited in a communication from a foreign patent office in a counterpart foreign application within three months of filing this statement.

**Match and Return**

10047422

00000042 132725

09/10/2003 CCH:U1

180.00 DA

01 FD:1806

# PATENT COOPERATION TREATY

JW

From the INTERNATIONAL SEARCHING AUTHORITY

## PCT

To:  
**MERCHANT & GOULD P.C.**  
**Attn. Daignault, Ronald A.**  
**P.O. Box 2903**  
**Minneapolis, Minnesota 55402-0903**  
**UNITED STATES OF AMERICA**  
**10646.345 US01 - BHB**  
**ATY IDS US/PTA: September 5, 2003**  
**ATY IDS US: November 6, 2003** D

**NOTIFICATION OF TRANSMITTAL OF  
 THE INTERNATIONAL SEARCH REPORT  
 OR THE DECLARATION**

(PCT Rule 44.1)

ATY RESP SR: October 6, 2003

Applicant's or agent's file reference <b>10646.345W001</b> ✓	Date of mailing (day/month/year) <b>06/08/2003</b>
International application No. <b>PCT/US 03/01249</b>	International filing date (day/month/year) <b>14/01/2003</b>
Applicant <b>VERMEER MANUFACTURING COMPANY</b>	

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO  
 34, chemin des Colombettes  
 1211 Geneva 20, Switzerland  
 Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Further action(s): The applicant is reminded of the following:

Shortly after 18 months from the priority date, the International application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer <b>Sonia Kaufmann</b>
--	---

10.047.422  
09-08-2003  
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
12 July 2001 (12.07.2001)

PCT

(10) International Publication Number  
WO 01/49965 A1

(51) International Patent Classification:  
25/16, 47/02

E21B 7/04.

(74) Agents: MURTAUGH, John, P. et al.; Pearne & Gordon  
LLP, Suite 1200, 526 Superior Avenue East, Cleveland, OH  
44114-1484 (US).

(21) International Application Number: PCT/US00/35067

(22) International Filing Date:  
22 December 2000 (22.12.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/174,487 4 January 2000 (04.01.2000) US  
60/203,040 9 May 2000 (09.05.2000) US  
09/617,189 14 July 2000 (14.07.2000) US

(81) Designated States (national): AE, AL, AM, AT, AU, AZ,  
BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK,  
DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,  
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,  
UG, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

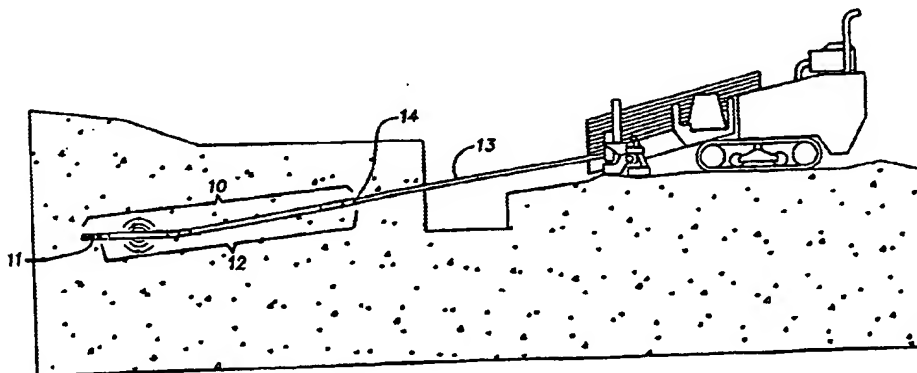
- With international search report.
- Before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments.

(71) Applicant: PERFORMANCE BORING TECHNOLOGIES, INC. [US/US]; 1359 N. Willer Drive, Casper, Wyoming 82604 (US).

(72) Inventors: BLAIR, Paris, E.; 2120 Brentwood Drive, Casper, WY 82604 (US). FICKEN, Joseph, L.; 200 Aster, Casper, WY 82604 (US). RICHARDS, Daniel, J.; 3300 Arroyo Drive, Casper, WY 82604 (US).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INTEGRATED TRANSMITTER SURVEYING WHILE BORING (SWB) ENTRENCHING POWERING DEVICE FOR THE CONTINUATION OF A GUIDED BORE HOLE



(57) Abstract: A bottom hole assembly (10) for horizontal directional drilling that improves the accuracy of surveying while boring by enabling the progress of the bore to be monitored and tracked with the aid of a sonde (108). In one embodiment the sonde (108) is received in the wall of a housing area (41) of a mud motor (12) surrounding the bearing mandrel (18), in another embodiment the sonde (108) is carried in the wall of a collar (126) surrounding the bearing mandrel housing (18), and in an additional embodiment the sonde (108) is carried in an adapter (131) between the bearing mandrel (18) and the bit (11).

WO 01/49965 A1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MICHAEL ET AL.  
Serial No.: 10/047,422  
Filed: JANUARY 14, 2002  
Confirmation No.: 2476

Examiner: W. NEUDER  
Group Art Unit: 3672  
Docket: 10646.345US01  
Notice of Allow. JULY 30, 2003  
Date:

Due Date: SEPTEMBER 5, 2003 (30 day date)

Title: SONDE HOUSING AND METHOD OF MANUFACTURE

**CERTIFICATE UNDER 37 CFR 1.8:**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 4, 2003.

By:   
Name: Patricia Cygan

Mail Stop Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

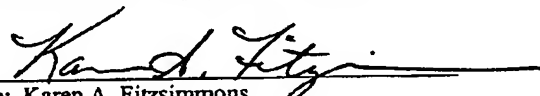
Sir:

We are transmitting herewith the attached:

- ☒ Transmittal Sheet in duplicate containing Certificate of Mailing
- ☒ Supplemental Information Disclosure Statement, Form 1449, 2 Reference(s), Copy of International Search Report
- ☒ Please Charge Deposit Account No. 13-2725 in the amount of \$180.00 for the Supplemental Information Disclosure Statement Fee
- ☒ Return postcard

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers or any future reply, if appropriate. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

MERCHANT & GOULD P.C.  
P.O. Box 2903, Minneapolis, MN 55402-0903  
612.332.5300

By:   
Name: Karen A. Fitzsimmons  
Reg. No.: 50,470  
KFitzsimmons:PSTpmc



(PTO TRANSMITTAL - GENERAL)

RECEIVED

SEP 12 2003

GROUP 3600



Certification Under 37 C.F.R. § 1.704(d)

In accordance with 37 C.F.R. § 1.704(d), the undersigned hereby certifies that each item listed on the enclosed Form 1449 was cited in a communication from a foreign patent office in a counterpart application, and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty (30) days prior to the filing of this Information Disclosure Statement. Accordingly, no patent term adjustment is due for the filing of this Information Disclosure Statement.

In accordance with 37 C.F.R. § 1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided. Enclosed for the Examiner's information is a copy of the International Search Report.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.



Date: Sept. 4, 2003


Respectfully submitted,

MERCHANT & GOULD P.C.  
P.O. Box 2903  
Minneapolis, Minnesota 55402-0903  
(612) 332-5300

**RECEIVED**

SEP 12 2003

**GROUP 3600**

  
Karen A. Fitzsimmons  
Reg. No. 50,470  
KAF:PSTpmc